

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A three-dimensional shape measuring system comprising:
a measuring section for measuring a three-dimensional shape of an object by scanning the object;

a display section for displaying information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning; and

an imaging section for taking a two-dimensional image of the object, wherein
the display section displays information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning by displaying the two-dimensional image of the object and identifiably showing an area of the two-dimensional image where the scanning has already completed as well as an area where the scanning has not completed yet, and

~~the entire area displayed in the display section is comprehensively measured by the measuring section during scanning~~

the display section displays all the measuring points prior to the scanning by superimposing visual indicators of the points on the two-dimensional image, and displays a progress status of the scanning along with the progress of the scanning by changing the display state of the measuring points that were displayed in advance.

2. (Original) The three-dimensional shape measuring system according to claim 1, wherein the measuring section includes:

a scanning section for changing a measuring direction; and

a distance measuring section for measuring a distance to the object in each measuring direction of the scanning section; and

the measuring section measures the three-dimensional shape of the object based on the measured distance.

3. (Original) The three-dimensional shape measuring system according to claim 2, wherein the measuring section calculates a distance to each point on the object, based on a flight time of a pulsed light from a transmitting time of a pulsed light to a receiving time of the pulsed light reflected from the object.

Claims 4 and 5 (Canceled)

6. (Previously Presented) The three-dimensional shape measuring system according to claim 1,

wherein the information displayed is a message image indicating the status of progress of the scanning.

7. (Original) The three-dimensional shape measuring system according to claim 6, wherein the message image is an image indicating a degree of progress of the scanning as a percentage.

8. (Currently Amended) A three-dimensional shape measuring system comprising:
a measuring section for measuring a three-dimensional shape of an object by scanning the object;

an imaging section for taking an a two-dimensional image of the object including an area to be measured by the measuring section; and

a display section for displaying the two-dimensional image of the object taken by the imaging section and identifiably showing an area of the two-dimensional image where the scanning has already completed as well as an area where the scanning has not completed yet based on a degree of progress in the measuring section, wherein

~~the entire area displayed in the display section is comprehensively measured by the measuring section during scanning~~

the display section displays all the measuring points prior to the scanning by superimposing visual indicators of the points on the two-dimensional image, and displays a progress status of the scanning along with the progress of the scanning by changing the display state of the measuring points that were displayed in advance.

9. (Original) The three-dimensional shape measuring system according to claim 8, wherein the measuring section includes:

a light source;

a scanner for scanning the object by deflecting a light from the light source;

a sensor for receiving a light deflected by the scanner and reflected from the object; and

a calculating section for calculating a distance to each scanning position of the object based on an output of the sensor.

10. (Original) The three-dimensional shape measuring system according to claim 8, wherein the measuring section includes:

a two-dimensional imaging device;

a scanner for changing an imaging direction of the two-dimensional imaging device;

an outline generating section for generating an image formed by an outline of each image obtained by the two-dimensional imaging device on each scanning position; and

a processing section for generating information with respect to a three-dimensional shape of the object, based on the image generated by the outline generating section.

11. (Original) The three-dimensional shape measuring system according to claim 8, wherein the display section displays the three-dimensional shape which is measured.

12. (Original) The three-dimensional shape measuring system according to claim 8, wherein the display section displays during the scanning by the measuring section.

13. (Original) The three-dimensional shape measuring system according to claim 12, wherein the display section updates display contents a plurality of times during the scanning by the measuring section.

14. (Original) The three-dimensional shape measuring system according to claim 8, further comprising an instructing section for instructing a stop of the measurement by the measuring section during measurement.

15. (Original) The three-dimensional shape measuring system according to claim 14, further comprising:

a storage section for storing a result of a measurement; and

a control section for controlling the measuring section to store a result of a measurement already measured when the stop of measuring is instructed by the instructing section.

Claims 16 – 20 (Cancelled)

21. (Currently Amended) The three-dimensional shape measuring system according to claim 1, wherein the measuring ~~portion~~ section measures the area displayed by the display portion substantially uniformly.

22. (Cancelled)

23. (Previously Presented) The three-dimensional shape measuring system according to claim 1, wherein the two-dimensional image of the object in the area where the scanning is finished includes information about a three-dimensional shape based on the measurement result.

24. (Previously Presented) The three-dimensional shape measuring system according to claim 1, wherein a distance image is displayed for the area where the scanning is finished.